

RÉPUBLIQUE FRANÇAISE
INSTITUT NATIONAL
DE LA PROPRIÉTÉ INDUSTRIELLE

PARIS

8325
11 N° de publication :
(A n'utiliser que pour les
commandes de reproduction).

2 268 898

A1

DEMANDE
DE BREVET D'INVENTION

21

N° 74 14352

54 Procédé et dispositif pour le nettoyage des articles textiles.

51 Classification internationale (Int. Cl.²). D 06 L 1/04; B 05 C 3/04; D 06 F 21/04.

22 Date de dépôt 24 avril 1974, à 10 h 20 mn.
33 32 31 Priorité revendiquée :

41 Date de la mise à la disposition du
public de la demande B.O.P.I. — «Listes» n. 47 du 21-11-1975.

71 Déposant : CENTRE TECHNIQUE DE LA TEINTURE ET DU NETTOYAGE, résidant en France.

72 Invention de : Jacky Constant et Michel Perrot.

73 Titulaire : *Idem* 71

74 Mandataire : Cabinet Michel Laurent.

D

Vente des fascicules à l'IMPRIMERIE NATIONALE, 27, rue de la Convention — 75732 PARIS CEDEX 15

1165X/07

A35 D24 P06 R42

TELE 240474

ATT. C5, A12550MH

211140

CENT. TECHN. TENTUR. 24.04.74. FR. 2268-891
 Dry cleaning synthetic textiles, esp polyester - using surfactant org soln
 contg emulsified aq detergent compn

A process for dry cleaning textile articles made of synthetic fibres, esp. polyester, comprises treating the articles with a soln. of surfactants in an org. solvent, the soln. also containing a surfactant, aq detergent compn., and an emulsified form. aq detergent compn., and injecting steam during the washing cycle. Applic. for performing the above process is also claimed.

ADVANTAGES

The process combines the advantages of dry- and wet-cleaning, removes both greasy and non-greasy stains and dirt, is cheaper and involves shorter washing cycle than wet processes and does not reject the used, polluted water.

MATERIALS

The surfactant is pre. compn. of anionic and non-ionic agents in the w. ratio 0.1-1, pref. 0.25-0.5. The aq. detergent compn. is conventional & contain alkylene boroxides, Na phosphates, CMG, silicates, surfactants etc. and is used in an amount equal to 1/10 of the weight of the solvents. The solvent is perchloroethylene or 1,1,1-trichloroethane. Vol. ratio of solvent and total injected compn. is

(solvent + surfactants + detergent + water) is 0.1-0.9, pref. 0.5. Concentr. of active components (detergent + surfactants) relative to bath vol. (water + solvent) is 2.5-1.0 g. pref. 5-7.5 g/l.

PROCESS

The detergent is dissolved in water, a soln. of the surfactants in the solvent is poured into the aq. soln. and the org. soln. emulsion together with steam simultaneously sprayed over the textile articles. During washing an amount of water used is 10-100 wt. % based on dried articles.

APPARATUS

This comprises a rotatable drum (1) a container (2) for used solvent, connected to the drum and to a solvent pump (3) for solvent, connected to a container (4) for clean solvent, also connected to the drum and to the device (5) a device for spraying the solvent and for injecting the emulsion stored in (6) and a steam injector (7) located in the centre of the drum and connected to a pressure valve (8). Drift, waste etc are removed at (9).

EXAMPLE

A soln. of 700 g. Genuoso NP10 (RTM) and 20 g. Sodium Dodecyl Sulfate (SDS) in 300 c.c. perchloroethylene is poured

into a soln. of 90 g. Saconege (RTM) in 675 g. water and the emulsion obt'd is extended with Perchloroethylene to 2 l. (2 PP).

